INDEX

DOKLADY BOTANICAL SCIENCES

Volumes 208-213, 1973

AUTHOR INDEX

DOKLADY BOTANICAL SCIENCES

Volumes 208-213, 1973

(A translation of the Botanical Sciences sections of Doklady Akademii Nauk SSSR)

A

Ageeva, O. A. - 7
Aksenova, N. P. - 109
Aksenova, V. A. - 81
Alekseeva, V. Ya. - 47, 132
Al'tergot, V. F. - 140
Artamonov, V. I. - 102
Averina, N. G. - 165

B

Balina, N. V. - 3
Barskaya, E. I. - 3
Bavrina, T. V. - 109
Bekhtereva, M. N. - 11
Bell, L. N. - 95
Bichurina, A. A. - 132
Butenko, R. G. - 54

C

Chailakhyan, M. Kh. - 11, 21
Churina, M. B. - 146

D

Dudinskii, Ya. A. - 50
Dzhekshenaliev, K. D. - 140

F

Fel'dman, N. I. - 7
Feofilova, E. P. - 11
Frolova, L. A. - 63

G

Gadzhieva, I. Kh. - 98
Gamalei, Yu. A. - 85
Genkel', P. A. - 115
Golyanovskaya, S. A. - 109
Gordon, L. Kh. - 132
Grineva, G. M. - 63
Grozovskaya, M. S. - 119
Gulyaev, B. I. - 88

I

Il'in, G. S. - 106
Ishmukhametova, N. N. - 137, 143

K

Kalashnikov, Yu. E. - 66
Kamyshenko, L. K. - 119
Kanash, E. V. - 3
Kefeli, V. I. - 106, 156
Khavkin, É. E. - 17, 25, 34, 56
Khisamutdinova, V. I. - 143
Klyachko, N. L. - 126
Konstantinova, T. N. - 109
Kovaleva, L. B. - 72
Kozhanova, O. N. - 81
Krupenko, A. N. - 95
Kulaeva, O. N. - 126
Kulieva, F. B. - 54
Kul'tina, V. V. - 43
Kutyurin, V. M. - 169

L

Laurinavichyus, R. S. - 150
Le Thi Mtsoi - 156
Likholat, T. V. - 161
Lisovskii, G. M. - 92
Livshin, A. Z. - 60
Lositskaya, T. V. - 119
Lozhnikova, V. N. - 11
Lyutova, M. I. - 7

M

Magomedov, I. M. - 72
Makhlina, A. M. - 29
Merkis, A. I. - 150
Mikhailova, T. P. - 156
Mikheeva, S. A. - 14
Mironyuk, V. I. - 50
Mitsuk, Z. I. - 119
Mizrakh, S. A. - 92
Murav'eva, A. S. - 132

P

Peshkova, A. A. - 17, 34
Petinov, N. S. - 123
Polevoi, V. V. - 29
Polikarpochkina, R. T. - 56
Popova, P. Ya.- 123
Pospelov, V. A.- 161
Preobrazhenskaya, E. I. - 75
Pronina, N. D. - 115
Prudnikova, I. V. - 119
Pumpyanskaya, S. L. - 153

R

Radomysl'skaya, T. M. - 153
Rakitina, Z. G. - 60
Ramazanova, L. Kh. - 47
Reimers, F.É. - 17, 34
Rozhkova, N. G. - 106
Rozonova, L. N. - 169
Rubin, B. A. - 81
Rybin, I. A. - 14, 129

S

Saidov, A. S. - 29
Samokhvalov, G. I. - 11
Samygin, G. A. - 60
Savchenko, G. E. - 119
Shakhov, A. A. - 146
Shamina, Z. B. - 54
Shcheglov, N. I. - 32
Shermatov, N. - 123
Shlyk, A. A. - 119, 165
Shuvalova, N. P. - 95
Solov'eva, M. B. - 109
Sorokin, E. M. - 69
Startseva, A. V. - 137
Strogonov, B. P. - 54
Sumenkova, T. N. - 38

T

Terskov, I. A. - 92
Tikhomirov, B. A. - 43

Turetskaya, R. Kh. - 106
Volkova, T. V. - 95
Yusufov, A. G. - 98

V

Varakina, N. N. - 56
Vasil'eva, I. M. - 143
Vigorov, L. I. - 38
Vlasov, P. V. - 106

Y

Yakovleva, L. A. - 126
Yakovleva, L. V. - 106
Yanina, L. I. - 21
Yaroshyus, A. V. - 150

Z

Zakrzhevskii, D. A. - 66, 169
Zenchenko, V. A. - 146
Zeleneva, I. V. - 25

DOKLADY BOTANICAL SCIENCES

Volumes 208-213, 1973

(A translation of the Botanical Sciences sections of Doklady Akademii Nauk SSSR)

Engl./Russ.

VOLUME 208, JANUARY-FEBRUARY, 1973

The Effect of Drought on the Formation of Callose in Plant Anthers—E. I. Barskaya, N. V. Balina, and E. V. Kanash 3 476

Thermal Stability of Ferredoxin from Pea (Pisum sativum L.) Leaves Hardened by Heating—N. L. Fel'dman, O. A. Ageeva, and M. I. Lyutova 7 479

Effect of Trisporic Acids on the Growth, Pigment Formation, and Respiration of Pea Shoots—E. P. Feofilova, V. N. Lozhnikova, M. N. Bekhtereva, G. I. Samokhvalov, and M. Kh. Chailakhyan 11 483

Nature of Bioelectrical Reaction of Plant Leaf to Turning on and Off of Light—I. A. Rybin and S. A. Mikheeva 14 742

Influence of Exogenous Nitrogen on the Activity of Nitrate Reductase and Glutamate Dehydrogenase in the Roots of Maize Seedlings—É. E. Khavkin, A. A. Peshkova, and F. É. Reimers 17 745

The Regulation of Flowering in Bryophyllum Shoots by Grafting—M. Kh. Chailakhyan and L. I. Yanina 21 749

Regulation of the Level of Glycolytic Enzymes in Elongating Cells of Corn Roots—I. V. Zeleneva and É. E. Khavkin 25 991

The Effect of Red and Far Red Light on the Redox Potential and the Content of Sulfhydryl Groups in Detached Leaves of Etiolated Bean (Phaseolus aureus Roxb.) Seedlings—A. S. Saidov, V. V. Polevoi, and A. M. Makhlina 29 995

Use of Embryo Culture in Stonefruit Breeding—N. I. Shcheglov 32 998

Mobilization of Nitrogen Reserves and the Activity of Proteolytic Enzymes in the Endosperm of Maize Seedlings under Stimulation of Root Growth by Exogenous Mineral Nitrogen—É. E. Khavkin, A. A. Peshkova, and F. É. Reimers 34 1246

Coumarins in the Fruits of Cultivated Plants—L. I. Vigorov and T. N. Sumenkova 38 1484

VOLUME 209, MARCH-APRIL, 1973

BOTANY

An Investigation of Pollen and Spores from the Stomach of the Selerikan Fossil Horse (Yakutia)—B. A. Tikhomirov and V. V. Kul'tina 43 1464

PLANT PHYSIOLOGY

The Activity and Isoenzymic Composition of Peroxidase in Bean Leaves in Connection with Dehydration—V. Ya. Alekseeva and L. Kh. Ramazanova 47 235

Characteristic Features of Respiration and Distribution of Oxidases in Foliar Nodes of Grasses—Ya. A. Dudinskii and V. I. Mironyuk 50 239

The Cytogenetic Effect of NaCl on Tissue Culture of Crepis capillaris—B. P. Strogonov, R. G. Butenko, Z. B. Shamina, and F. B. Kulieva 54 243

Cytochromes of the Respiratory Cycle of the Mitochondria in Growing and Mature Cells of the Corn Root—R. T. Polikarpochkina, N. N. Varakina, and É. E. Khavkin 56 492

Influence of an Adverse Gaseous Regime and Ice-Cold Bark on the Water-Retaining Capacity of the Leaves and Tillering Nodes of Hardened Winter Wheat – G. A. Samygin, Z. G. Rakitina, and A. Z. Livshin 60 496
Cytochrome Components of the Respiratory Cycle of the Mitochondria of Corn Roots under Conditions of Root Hypoxia – G. M. Grineva and L. A. Frolova 63 746
A Comparative Study of the Limiting Anaerobic Potential and Electrode Activity of the Cells of Plants at Different Evolutionary Levels – D. A. Zakrzhevskii and Yu. E. Kalashnikov 66 992
Quantum Yield of the Primary Act of Energy Conversion in Photosynthesis – E. M. Sorokin 69 1227
Localization of Phosphoenolpyruvate Carboxylase in Corn Leaves – I. M. Magomedov and L. B. Kovaleva 72 1467
The Radiosensitivity of Seeds in Light of the Law of Homologous Series in Hereditary Variability – E. I. Preobrazhenskaya. 75 1470

VOLUME 210, MAY-JUNE, 1973

PHYTOPATHOLOGY

New Formation of Peroxidase Protein in Cabbage Tissues under the Influence of Infection with Botrytis cinerea – B. A. Rubin, V. A. Aksenova, and O. N. Kozhanova 81 485

PLANT CYTOLOGY

The Golgi Apparatus as a Source of Microfibrils and Cell-Wall Matrix in the Plant Cell – Yu. A. Gamalei 85 213

PLANT PHYSIOLOGY

Peculiarities of the CO_2 Gas Exchange in Various Plant Species – B. I. Gulyaev 88 240
Growth and Development of Plants with a Lunar Photoperiod – S. A. Mizrakh, G. M. Lisovskii, and I. A. Terskov 92 475
The Ratio between the Photosynthetic Rates of Chlorella Measured by Energy- and Gas-Exchange at Saturating Light Intensities – N. P. Shuvalova, A. N. Krupenko, T. V. Volkova, and L. N. Bell 95 478
The Effect of Orientation on the Aging of Isolated Leaves – A. G. Yusufov and I. Kh. Gadzhieva 98 481
Interaction of Auxins and Riboflavin in Growth Reactions of Plants – V. I. Artamonov 102 978
Self-Inhibition Factor in Tobacco Seeds – G. S. Il'in, V. N. Kefeli, R. Kh. Turetskaya, L. V. Yakovleva, P. V. Vlasov, and N. G. Rozhkova 106 982
Dynamics of DNA, RNA, and Proteins of the Cell Nuclei in Goosefoot and Mustard during Photoperiodic Induction of Flowering – N. P. Aksenova, T. V. Bavrina, T. N. Konstantinova, S. A. Golyanovskaya, and M. B. Solov'eva 109 1474

VOLUME 211, JULY-AUGUST, 1973

PLANT PHYSIOLOGY

Mechanism of Cytorrhizy in the Moss Mnium affine Blandow – P. A. Genkel' and N. D. Pronina 115 497
The Effect of the Inhibitors of RNA Synthesis on the Biosynthesis of Protochlorophyllide in Postetiolated and Green Barley Shoots – A. A. Shlyk, I. V. Prudnikova, G. E. Savchenko, L. K. Kamyshenko, M. S. Grozovskaya, Z. I. Mitsuk, and T. V. Lositskaya 119 744
Influence of the Soil Moisture Content on the Technological Properties of Fiber and the Oil Content in Seeds of Cotton Varieties Differing in Degree of Early Ripening – N. S. Petinov, N. Shermatov, and P. Ya. Popova 123 1000
Influence of the Treatment of Isolated Pumpkin Cotyledons with 6-Benzylaminopurine on the Activity of Ribosome Preparations Isolated from Them – N. L. Klyachko, L. A. Yakovleva, and O. N. Kulaeva 126 1235

	Engl./Russ.	
The Different Bioelectric Reactions of Plants on Exposure to Light and Darkness—I. A. Rybin	129	1239
On the Problem of the Influence of Calcium on the Permeability of Root Cells to Water—L. Kh. Gordon, A. S. Murav'eva, A. A. Bichurina, and V. Ya. Alekseeva	132	1466

VOLUME 212, SEPTEMBER-OCTOBER, 1973

PLANT PHYSIOLOGY

The Role of the State of Water in Structural Viscosity Changes of the Cytoplasm during Dehydration—A. V. Startseva and N. N. Ishmukhametova	137	254
Acceleration of Root Regeneration by Metabolites Arising from Heat Damage—V. F. Al'tergot and K. D. Dzhekshenaliev	140	510
Interrelation between the State of Water and the Respiration of Wheat Shoots—N. N. Ishmukhametova, V. I. Khisamutdinova, and I. M. Vasil'eva	143	513
Light Sensitivity of the Organelles of Etiolated Wheat Seedlings—V. A. Zenchenko, M. B. Churina, and A. A. Shakhov	146	1243
Dependence of Oscillations of Bioelectrical Potentials on the Characteristic Features of Growth in the Geo- and Phototropic Reaction Process—A. I. Merkis, R. S. Laurinavichyus, and A. V. Yaroshyus	150	1247
The Dependence of the Ultraviolet Transmission Spectra of Leaves on Photoperiodic Effects—S. L. Pumpyanskaya and T. M. Radomysl'skaya	153	1250
The Activity of Growth Substances in Tobacco Leaves in Relation to Their Age and Tier Position on the Stem—T. P. Mikhailova, V. I. Kefeli, and Le Thi Mtsoi	156	1469

VOLUME 213, NOVEMBER-DECEMBER, 1973

Influence of Gibberellin and β-Indolylacetic Acid on the Template Activity of Chromatin Isolated from Wheat Coleoptile Cells of Different Ages—T. V. Likholat and V. A. Pospelov	161	231
Nature of the Influence of Kinetin on the Process of Accumulation of Protochlorophyllide in Etiolated and Green Barley Leaves—A. A. Shlyk and N. G. Averina	165	235
Specific Effect of a Hydrogen Atmosphere on the Evolution of Oxygen by Tradescantia Chloroplasts—D. A. Zakrzhevskii, L. N. Rozonova, and V. M. Kutyurin	169	980

INDEX

Author Index, Volumes 208-213, 1973	175
Tables of Contents, Volumes 208-213, 1973	177